

**DIVISION OF ENVIRONMENTAL HEALTH  
SOLID WASTE PROGRAM  
610 UNIVERSITY AVENUE  
FAIRBANKS, AK 99709-3643**

**Telephone: (907) 451-2108  
Fax: (907) 451-2187**

**File Number: 151.15.002**

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED # 7000-0520-0025-2110-0243**

March 27, 2002

Lt. Col. Kirk Dickenson  
U.S. Air Force, 13 SWS/CC  
P.O. Box 40013  
Clear AFS, AK 99704-0013

**RE: Clear AFS Inert Waste Monofill, #0231-BA002**

Dear Lt. Col. Dickenson:

The Department of Environmental Conservation has completed its evaluation of your application for a solid waste disposal permit for the operation of an inert waste monofill for construction and demolition debris and coal ash at Clear Air Force Station, located in Section 30, T.7 S., R.8 W., Fairbanks Meridian, and is issuing the enclosed permit in accordance with AS 46, 18 AAC 15, and 18 AAC 60. Please review the conditions and stipulations in the permit and ensure they are all understood. This permit is effective upon issuance and expires **February 28, 2007**.

Any person who disagrees with this decision may appeal the decision by requesting an adjudicatory hearing, using the procedures contained in 18 AAC 15.200-310. Hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 555 Cordova Street, Anchorage AK 99501, within 30 days of receipt of this letter. If a hearing is not requested within 30 days, the right to appeal is waived. Even if an adjudicatory hearing has been requested and granted, all permit conditions remain in full force and effect. Please also send a copy of the request to the undersigned.

Sincerely,

Heather T. Stockard  
Solid Waste Program Manager

NS/ (EH/SW/FBKS - G:\EH\SW\2002\0231-BA002 Clear AFS inert waste.doc)

Enclosure: Permit 0231-BA002

cc w/encl: Heidi Young, ARCTEC/Clear  
John Gonzales, Mayor-Denali Borough  
Trustees for Alaska/Anchorage

bcc w/encl.      Kent Monroe, ADEC/Fairbanks

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**ALASKA DEPARTMENT  
OF  
ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL HEALTH  
610 UNIVERSITY AVENUE  
FAIRBANKS, ALASKA 99709-3643**

**SOLID WASTE DISPOSAL PERMIT**

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Permit: **0231-BA002**

Date: March 27, 2002

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This Solid Waste Disposal Permit is issued to the United States Air Force, 13 Space Warning Squadron, Clear Air Force Station, Alaska 99704, for the operation and maintenance of an inert waste monofill for the disposal of construction and demolition debris and coal ash at Clear AFS, located in Section 30, T.7 S., R.8 W., Fairbanks Meridian. This permit is subject to the conditions and stipulations contained in Appendices A and B, which are incorporated herein by reference.

This permit is issued under the provisions of Alaska Statute 46.03, and the Alaska Administrative Code, as amended or revised, and other applicable state laws and regulations.

This permit is effective upon issuance and expires February 28, 2007. It may be terminated or modified in accordance with AS 46.03.120.

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Heather T. Stockard  
Solid Waste Program Manager



## **APPENDIX A – SITE DEVELOPMENT AND OPERATIONS**

### **I. SITE PREPARATION**

The permit holder shall:

- A. Comply with the designs and plans in the application dated November 9, 2001 and the additional information submitted March 13, 2002 as well as the following permit conditions. Additional modifications may be requested, but must be authorized by a permit amendment, before that modification is effective.
- B. Ensure that all operations will accommodate the waste volume and are done in a manner that will facilitate landfill closure.
- C. Erect and maintain readily visible signs directing users to the active dumping point/working face for construction and demolition waste and coal ash. Pertinent rules for landfill use and contact information should be posted or provided to all employees and contractors.
- D. Ensure that surface water runoff from outside the facility does not flow onto the facility and over, into, or through uncovered or covered solid wastes by constructing and maintaining diversion structures such as ditches or berms.
- E. Erect and maintain a locking gate at the entrance to the monofill to control access to the site and prohibit unauthorized disposal.
- F. Maintain the site to prevent its being an attraction to wildlife and domestic animals. If necessary, erect and maintain a fence or other devices to keep scavenging animals out of the refuse.

## II. SITE OPERATION

The permit holder shall:

### A. General Operating Procedures

1. Ensure that only construction and demolition debris and coal ash from known and tested sources are disposed of at this site.
2. Ensure that all electrical equipment, generators, radar domes, and other equipment have been drained of fluids and the fluids managed in accordance with 40 CFR 261.
3. Ensure that the handling and transportation of coal ash, and placement of cover is managed in a manner to prevent air quality violations for fugitive dust emissions under 18 AAC 50, State of Alaska Air Quality Regulations.
4. Ensure that vehicles/contractors using the solid waste disposal facilities arrive with secured loads in order to reduce litter problems.

### B. Burial

1. Consolidate and compact all loose construction and demolition wastes in lifts not to exceed six feet in height and cover all wastes monthly with a minimum of six inches of compacted soil or coal ash. Cover may be required more often to control windblown waste.
2. Maintain a minimum separation of 50 feet between the designated portion of the landfill and the boundary of the facility.
3. Ensure that the maximum landfill working face width shall not exceed 30 feet. The maximum height of the working face shall not exceed 10 feet.
4. Ensure that solid wastes are not placed in surface waters and that any ponded water within the monofill is removed within 30 days of accumulation.
5. Ensure that used oils or oily wastes are managed in accordance with 40 CFR 279.
6. Ensure that all non-salvageable drums, tanks, and associated piping are empty of fluids prior to crushing and burying. Remove all fluids from drums, tanks, and associated piping prior to disposal and properly dispose of in accordance with all applicable State and Federal laws, including but not limited to, RCRA, the Clean Water Act, the Clean Air Act, Title 46 of Alaska Statutes and 18 AAC 60. Ensure that all large containers (e.g., cleaned drums and tanks) are crushed and flattened to prevent voids in the fill.

C. Burning

1. Prohibit open burning within the landfill boundary and immediately extinguish all fires that occur.
2. Notify the Department of Environmental Conservation, Solid Waste Program, Fairbanks office, at 451-2108, if any fires occur at the landfill.

D. Snow Removal

1. Remove all accumulated snow from the disposal cell operations area prior to spring thaw and clean up any accumulated litter in the snow storage area after the snow melts.

E. Access

1. Construct and maintain on site roads as necessary to ensure adequate traffic control. Adequate traffic control means that the site supervisor will maintain positive control of all persons who are within the landfill boundaries and that refuse will be deposited in approved locations. Dumping in unauthorized areas violates conditions of this permit and Alaska Administrative Codes.

F. Litter

1. Collect all windblown and littered refuse from the disposal site and along access roads at least quarterly and return it to the active disposal cell for burial. All littered wastes on lands within 500 feet of the site, whether windblown or dumped, shall be collected and disposed at a frequency necessary to prevent litter from becoming an aesthetic nuisance.

III. PROHIBITIONS AND SPECIAL RESTRICTIONS

The permit holder shall:

- A. Prohibit the disposal of regulated asbestos containing material at this site.
- B. Prohibit discharge of firearms at the facility.
- C. Prohibit disposal of hazardous wastes, as defined in 40 CFR 261.3, oily wastes, waste oil, transformer oil, greases, paints, sludges, and chemical wastes at this facility unless written permission is obtained from the Department.



- D. Prohibit disposal of lead-acid vehicle batteries at the landfill site. Storage in a designated area in closed, leak-proof containers prior to transport to an acceptable recycle or disposal site is permitted.
- E. Prohibit the disposal of contaminated soil which:
  - 1. Contains concentrations of hazardous substances exceeding one or more of the applicable migration to groundwater levels set in 18 AAC 75.341 Table B1 or Table B2;
  - 2. Exhibits the characteristic of toxicity described in 40 C.F.R. 261.24(a); or
  - 3. Is determined by the department under 18 AAC 75 to pose a migration to surface water threat. Soil contamination that does not exceed migration to groundwater levels may still be considered contaminated soil under 18 AAC 75.
- F. Prohibit the disposal of domestic refuse and other putrescible wastes.
- G. Prohibit the disposal of coal ash that exhibits any of the characteristics of toxicity as determined through the EPA Toxic Characteristic Leaching Procedure (TCLP) test.

#### IV. MONITORING AND REPORTING

The permit holder shall:

- A. Conduct random load inspections of wastes received at the landfill prior to disposal at the working face in order to check for the presence of hazardous and prohibited wastes. Inspection records documenting the date of each inspection, the type of wastes found and any corrective actions taken shall be kept in the landfill operating record. Make copies of the records available to the Department, upon request.
- B. Visually monitor the site each month during active operation of the site for signs of damage or potential damage from settlement, ponding, leakage, erosion, or operations at the site. Maintain records of the date of each inspection, observations and any corrective action in the landfill operating record. Make copies of the records available to the Department, upon request.
- C. Maintain a set of site development and use plans and submit an updated copy to the Department showing current status before the anniversary date each year until the facility is permanently closed to disposal.

- D. Provide the Department TCLP (Toxicity Characteristic Leaching Procedure) test results for the coal ash in the event process, coal ash source, or supplementary fuel source changes occur at the power plants. Results of the most recent test results will be provided to the Department upon each request for permit renewal.
- E. Maintain an inventory of coal ash deposited in the monofill. The inventory shall be recorded in the operating record and made available for Department review, upon request.
- F. Photograph the disposal site:
  - 1. As prepared for waste disposal.
  - 2. During waste deposition at least once per year.
  - 3. After final cover has been applied.
  - 4. After revegetation during the summer following closure.

Photographs taken under 1, 2, and 3, above should be submitted within 60 days of closure and photographs under 4, within one year of closure.

## V. CLOSURE AND RESTORATION

The permit holder shall:

- A. Notify the Solid Waste Program, Fairbanks ADEC Office at least 30 days before the site is to be permanently closed and the equipment withdrawn.
- B. Ensure that a final cover be applied within 90 days after the last waste is deposited and consists of at least two feet of clean soil, the top six inches of which will promote adequate water retention for the successful revegetation of the site with native vegetation or grasses.
- C. Grade the completed landfill areas to promote surface water runoff without erosion so as to prevent ponding, erosion, and to minimize the amount of water entering the solid waste. Surface restoration and erosion control work, such as grading and contouring, will be completed within 90 days after site closure. Restoration will be required if the Department determines that significant erosion has occurred within five years of facility closure.

- D. Develop and implement a vegetative cover plan for completed areas within the first growing season after site closure using plant species recommended by the Alaska Plant Material Center (907) 745-4469.
- E. Prepare a survey as-built or record drawings showing the location, volume and type of waste deposited at the solid waste disposal site, and a legal description of the landfill property which would be found during a title search. Submit the as-built or drawing to the ADEC Solid Waste Program, Fairbanks Office, within 60 days of the final closure or expiration date of this permit. A copy will be provided to any purchaser or transferee at the time of property sale or lease.
- F. Within 60 days after the entire facility is permanently closed to landfilling, file the survey as-built or record drawings of the area used as a landfill with the State Recorder's Office or other appropriate land records office approved by the Department. At the same time, file a notation informing future property owners:
  - 1. That the land has been used as a monofill;
  - 2. The type of waste that was placed in the monofill;
  - 3. The geographical boundaries of the waste management area; and
  - 4. Details of any final cover, cap, or other structures or devices installed as part of closure.

Submit proof of these recordings to the ADEC Solid Waste Program, Fairbanks Office.

## VI. POST-CLOSURE

- A. Conduct annual visual monitoring inspections of the site for signs of damage or potential damage from settlement, ponding, leakage, erosion, unsuccessful vegetation or damage by burrowing animals for five years after the landfill has been closed. Record the inspection results and corrective actions, and maintain them in the facility's operating record.
- B. Submit a report at the end of the five-year post-closure period to the ADEC Solid Waste Program, Fairbanks office that contains recent photographs of the site, visual inspection logs, and a description of any problems detected during visual monitoring and the corrective actions taken.

## **APPENDIX B - GENERAL PERMIT CONDITIONS**

### **I. ACCESS AND INSPECTION**

The permittee shall allow the Commissioner or her/his representative access to the permitted facilities at reasonable times to conduct scheduled or unscheduled inspections or tests to determine compliance with this permit, State laws, and regulations.

### **II. INFORMATION ACCESS**

Except for information relating to confidential processes or methods of manufacture, all records and reports submitted in accordance with the terms of this permit shall be available for public inspection at the State of Alaska Department of Environmental Conservation, Fairbanks Office, 610 University Avenue, Fairbanks, Alaska 99709-3643.

### **III. CIVIL AND CRIMINAL LIABILITY**

Nothing in this permit shall relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, including, but not limited to, accidents, equipment breakdowns, or labor disputes.

### **IV. AVAILABILITY**

The permittee shall post or maintain a copy of this permit available to the public at the disposal facility.

### **V. ADVERSE IMPACT**

The permittee shall take all necessary means to minimize any adverse impacts to the receiving waters or lands resulting from noncompliance with any limitation specified in this permit, including any additional monitoring needed to determine the nature and impact of the noncomplying activity. The permittee shall cleanup and restore all areas adversely impacted by the noncompliance.

### **VI. CULTURAL OR PALEONTOLOGICAL RESOURCES**

Should cultural or paleontological resources be discovered as a result of this activity, work which would disturb such resources is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, Department of Natural Resources, is to be notified immediately (907) 269-8721.



VII. APPLICATIONS FOR RENEWAL

In accordance with 18 AAC 15.100(d), applications for renewal or amendment of this permit must be made no later than 30 days before the expiration date of the permit or the planned effective date of the amendment.

VIII. OTHER LEGAL OBLIGATIONS

The requirements, duties, and obligations set forth in this permit are in addition to any requirements, duties, or obligations contained in any permit that the Alaska Department of Environmental Conservation or the U.S. Environmental Protection Agency has issued or may issue to the permittee. This permit does not relieve the permittee from the duty to obtain any and all necessary permits and to comply with the requirements contained in any such permit or with applicable state and federal laws and regulations. All activities conducted by the permittee pursuant to the terms of this permit and all plans implemented by the permittee pursuant to the terms of this permit shall comply with all applicable state and federal laws and regulations.

IX. POLLUTION PREVENTION

In order to prevent and minimize present and future pollution, when making management decisions that affect waste generation, the permittee shall consider the following order of priority options: waste source reduction; recycling of waste; waste treatment; and waste disposal.